## **Marine Life Protection Act Initiative**



#### Marine Birds and Marine Mammals Evaluation Updates and New Approaches for Round 2

Presentation to the MLPA Master Plan Science Advisory Team May 12, 2010 • Webinar

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# **Updates - Marine Mammal Analyses**

- Classified harbor seal rookeries
- Refined pinniped haulout locations
- Refined gray whale summer foraging data
- Provided at-sea hotspots



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#### **Updates - Marine Bird Analyses**

- Updated Table 9.2: Proposed activities that will qualify or disqualify an SMCA for inclusion in each seabird analysis
- Pelican roost size classifications based on maximum counts
- Discussed new approaches for approval
  - -Neritic foraging analysis
  - -Waterfowl analysis
  - Shorebird analysis



## **Neritic Foraging Analysis Approach**

- Report for seven groups of species
  - Loons, Grebes, and Scoters
  - Pigeon Guillemots and Pelagic Cormorants
  - Marbled Murrelets
  - All other seabirds
  - All pinnipeds
  - Harbor Porpoise
  - Gray Whales
- Report on area of overlap between hot spots and proposed marine protected areas and density
- Hot spots identified as areas with top 10% density for each group of species

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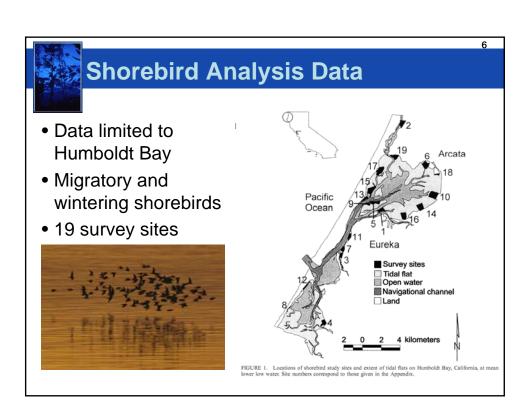


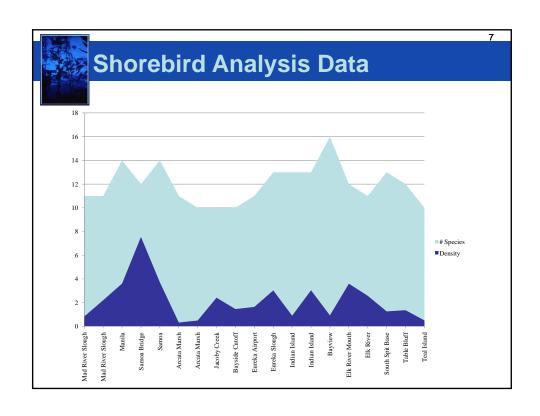
# **Waterfowl Analysis Approach**

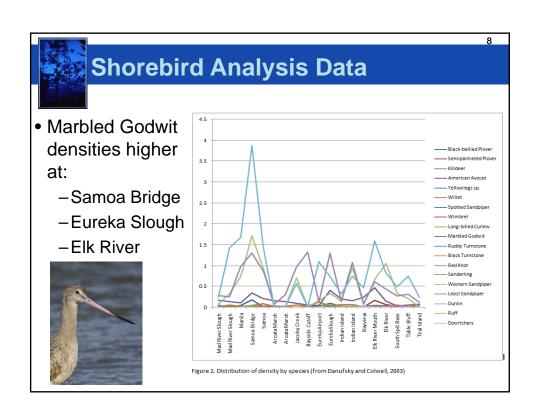
- Report by groups of species
  - Dabbling Ducks
  - Diving Ducks
  - Geese
  - Sea Ducks
  - Shorebirds
  - Swans



- Based on maximum winter counts
- Analysis will be based on the diversity and relative numbers of these birds that are represented in proposed MPA's









### **Shorebird Analysis Approach**

- Number of survey sites in proposed MPAs in Humboldt Bay will be reported
- Species density and diversity will be reported for each proposed MPA containing a survey site
- Proposed MPAs that capture one of the three higher density Marbled Godwit areas will be noted
- Proposed MPAs that capture the western shore of Arcata Bay will be noted
- Proposals will be compared to one another based on species density and diversity



#### **Potential SAT Action**

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- Approve evaluation approaches for:
  - -Identifying hot spots for neritic foraging analysis
  - -Waterfowl analysis
  - -Shorebird analysis